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**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

Application Number 10/658,018

Filing Date September 8, 2003

First Named Inventor Jing Sun

Art Unit 3748

Examiner Name

Total Number of Pages in This Submission

5+

Attorney Docket Number 202-1341 (FGT 3B8)

**ENCLOSURES** (Check all that apply)

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Fee Transmittal Form                                | <input type="checkbox"/> Drawing(s)                                       | <input type="checkbox"/> After Allowance communication to Group                            |
| <input type="checkbox"/> Fee Attached  | <input type="checkbox"/> Licensing-related Papers                         | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences        |
| <input type="checkbox"/> Amendment/Reply                                     | <input type="checkbox"/> Petition   | <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) |
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| <input type="checkbox"/> Affidavits/declaration(s)                           | <input type="checkbox"/> Power of Attorney, Revocation                    | <input type="checkbox"/> Status Letter   |
| <input type="checkbox"/> Extension of Time Request                           | <input type="checkbox"/> Change of Correspondence Address                 | <input checked="" type="checkbox"/> Other Enclosure(s) (please Identify below):            |
| <input type="checkbox"/> Express Abandonment Request                         | <input type="checkbox"/> Terminal Disclaimer                              | -PTO 1449 Form   |
| <input checked="" type="checkbox"/> Information Disclosure Statement         | <input type="checkbox"/> Request for Refund                               | -Foreign Language References   |
| <input type="checkbox"/> Certified Copy of Priority Document(s)              | <input type="checkbox"/> CD, Number of CD(s) _____                        |  |
| <input type="checkbox"/> Response to Missing Parts/Incomplete Application    | <input type="text" value="Remarks"/>                                      |  |
| <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 |   |  |

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm or Individual name	John D. Russell, Reg. No. 47,048
Signature	Kolisch Hartwell, P.C.
Date	January 2, 2004

**CERTIFICATE OF TRANSMISSION/MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name Erin Filsinger

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Date

January 2, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Date: January 2, 2004

JING SUN and  
YONG-WHA KIM

Serial No. : 10/658,018

Group Art Unit: 3748

Filed : September 8, 2003

For : COMPUTER READABLE STORAGE MEDIUM WITH  
INSTRUCTIONS FOR MONITORING CATALYTIC DEVICE

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §§ 1.56, 1.97, and 1.98**

Applicants are submitting this Information Disclosure Statement pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98 to disclose to the Patent Office the patents, publications, applications, and/or other references listed on the enclosed, completed PTO-1449 form(s). The filing of this Information Disclosure Statement should not be construed as a representation that a search has been made or as an admission that the listed references are prior art for this application. Applicants respectfully request that the listed references be expressly considered during prosecution of the application, and that the references be made of record therein and appear among the "references cited" on any patents issuing therefrom.

## CONTENT OF DISCLOSURE

This Information Disclosure Statement includes (1) one page of PTO-1449 form, and (2) a legible copy of each foreign and non-patent reference, if any, listed on the form. However, because this application was filed on or after July 1, 2003, no copies of U.S. patents or published U.S. patent applications are included.

## FOREIGN-LANGUAGE REFERENCES

A concise explanation of the relevance of each listed reference not in the English language follows:

Japanese Patent No. 11-062562: To accurately diagnose deterioration in NOx absorbing performance by diagnosing deterioration of NOx absorbing performance from correlation between responsive delay of change from lean to rich across NOx absorbing catalyst and a NOx absorbed quantity up to the change to be rich.

At judging realization of a lean combustion condition, a NOx absorbing quantity detecting means B estimatedly computes tht NOx absorbed quantity of NOx absorbing catalyst from the operating condition of an engine. An air-fuel ratio increasing means C inverts the air-fuel ratio injection quantity is corrected to increase for performing separation and reduction of the absorbed NOx. Hereat a delay time measuring means D measures a time since the exhaust air-fuel ratio before the catalyst is detected to be inverted to rich by an oxygen sensor on the down stream side. A catalyst deterioration detecting means E judges deterioration of NOx absorbing performance, when delay of a

time corresponding to the estimated NOx absorbing quantity is not in the measured delay time.

### **TIMING OF DISCLOSURE / FEE INFORMATION**

This Information Disclosure Statement is being filed, to the best of the undersigned's knowledge, either (1) before the mailing of a first Office action on the merits, or (2) before the mailing of a first Office action after the filing of a request for continued examination under 37 C.F.R. § 1.114. Therefore, in accordance with 37 C.F.R. § 1.97(b), no fee or statement under 37 C.F.R. § 1.97(e) is required.

Please contact the undersigned with any questions or comments regarding this Information Disclosure Statement.

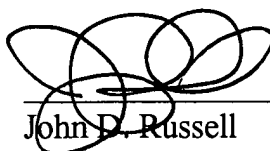
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Erin Filsinger

Respectfully submitted,

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SHEET 1 OF 1

FORM PTO-1449  INFORMATION DISCLOSURE CITATION IN AN APPLICATION		DOCKET NUMBER 202-1341 (FGT 3B8)		APPLICATION NUMBER 10/658,018			
		APPLICANT(S) Jing Sun and Yong-Wha Kim					
		FILING DATE September 8, 2003		GROUP ART UNIT 3748			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.	
	5,743,084	04-28-1998	Hepburn				
	6,357,224	03-19-2002	Kawamoto et al.				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	
	08-232644	09-10-1996	JP			X	
	11-062562	03-05-1999	JP				X
	2 318 417	04-22-1998	GB				
	2 318 418	04-22-1998	GB				
	2 333 368	07-21-1999	GB				
OTHER DOCUMENTS							
EXAMINER			DATE CONSIDERED				